

**PATENT COOPERATION TREATY**  
**PCT**

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**  
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 257-Q-07-PCT	<b>FOR FURTHER ACTION</b>		See item 4 below
International application No. PCT/IL2007/001402	International filing date ( <i>day/month/year</i> ) 13 November 2007 (13.11.2007)	Priority date ( <i>day/month/year</i> ) 13 November 2006 (13.11.2006)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant Q-CORE LTD.			

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I Basis of the report
<input type="checkbox"/>	Box No. II Priority
<input type="checkbox"/>	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI Certain documents cited
<input type="checkbox"/>	Box No. VII Certain defects in the international application
<input type="checkbox"/>	Box No. VIII Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

		Date of issuance of this report 19 May 2009 (19.05.2009)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland  Facsimile No. +41 22 338 82 70	Authorized officer  Simin Baharlou e-mail: pt09.pct@wipo.int	

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:  
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# PCT

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

		Date of mailing (day/month/year)	<b>20 JUN 2008</b>
Applicant's or agent's file reference  257-Q-07-PCT		<b>FOR FURTHER ACTION</b> See paragraph 2 below	
International application No.  PCT/IL07/01402	International filing date (day/month/year)  13 November 2007 (13.11.2007)	Priority date (day/month/year)  13 November 2006 (13.11.2006)	
International Patent Classification (IPC) or both national classification and IPC  IPC: H01F 7/02( 2006.01);H02K 41/00( 2006.01) USPC: 335/302;310/12			
Applicant  ROTEM, SHACHAR			

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

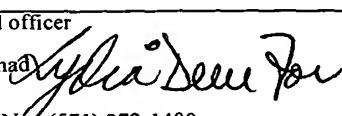
2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/ US  Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Date of completion of this opinion  30 May 2008 (30.05.2008)	Authorized officer  Elvin G Enad  Telephone No. (571) 272-1400
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Form PCT/ISA/237 (cover sheet) (April 2007)

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/IL07/01402

**Box No. I Basis of this opinion**

1. With regard to the language, this opinion has been established on the basis of:

the international application in the language in which it was filed  
 a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).  
2.  This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))  
3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of:

a. type of material

a sequence listing  
 table(s) related to the sequence listing

b. format of material

on paper  
 in electronic form

c. time of filing/furnishing

contained in the international application as filed.  
 filed together with the international application in electronic form.  
 furnished subsequently to this Authority for the purposes of search.

4.  In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/IL07/01402

**Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Claims <u>NONE</u>	YES
	Claims <u>1-12</u>	NO
Inventive step (IS)	Claims <u>NONE</u>	YES
	Claims <u>1-12</u>	NO
Industrial applicability (IA)	Claims <u>1-12</u>	YES
	Claims <u>NONE</u>	NO

**2. Citations and explanations:**

**Claims 1-12** lacks novelty under PCT article 33(2) as being clearly anticipated by Yamakawa.

1. Regarding **claim 1**, at [figs. 1-4 combined with disclosure] Yamakawa teaches at least one moving member [fig. 1, element 16] acted upon by obstructive forces [23/24], the magnitude of the obstructive forces [19/20/23/24] being dependent upon the displacement of the moving member [16]; and a plurality of balancing elements [11/14/15] providing balancing forces upon the moving member [16], the balancing forces [16] at each point along the path of motion of the moving member being of approximately equal magnitude to that of the obstructive forces [19/20/23/24] at the point, such that the parasitic output is reduced to about zero
2. Regarding **claim 2**, wherein the balancing elements [11/14/15] comprise a plurality of permanent magnetic elements [11/14/15] situated upon the moving member [16] and in its locality to provide balancing forces of equal magnitude but in the opposite direction of the obstructive forces [19/20/23/24] the magnetic elements [11/14/15] are selected from ferromagnetic elements, paramagnetic elements, fix magnets, superconducting elements or any combination thereof.
3. Regarding **claim 3**, wherein the balancing elements [11/14/15] comprise a plurality of permanent magnetic elements [11/14/15] situated adjacent to the moving member [16] and in its locality so as to provide balancing forces of equal magnitude but in the opposite direction of the obstructive forces [19/20/23/24], the magnetic elements [11/14/15] are selected from ferromagnetic elements, paramagnetic elements, fix magnets, metals, superconducting elements or any combination thereof.
4. Regarding **claim 4**, wherein the moving member [16] moves with linear motion [**abstract**] and the obstructive forces [23/24] act in a direction parallel to its motion [fig. 1].
5. Regarding **claim 5**, a set of pressing fingers [16a/16b/16c/22] which act against a fluid carrying elastic tube [21] such that fluids are forced to flow through the tube; and a set of balancing elements [11/13/23/24] to balance the obstructing forces [19/20/23/24] exerted by the tube upon the peristaltic fingers [16a/16b/16c/22].

Regarding **claims 6-12**, it is noticed that method steps in **claims 6-12** are inherent in the assembly structure, since cols. 2-4 provide a detailed description and the operation of the electric actuator 1.